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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/644,594	08/19/2003	Tony N. Frudakis	DNA1170-2	6207
28213	7590	09/22/2005		
			EXAMINER	
		DLA PIPER RUDNICK GRAY CARY US, LLP		MILLER, MARINA I
		4365 EXECUTIVE DRIVE		
		SUITE 1100	ART UNIT	PAPER NUMBER
		SAN DIEGO, CA 92121-2133		1631

DATE MAILED: 09/22/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/644,594	FRUDAKIS ET AL.
	Examiner Marina Miller	Art Unit 1631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 20 May 2004.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1,3-9,12,15,16,21,22,24,29-32,37-45,47-59,61,72 and 76 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) _____ is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) 1,3-9,12,15,16,21,22,24,29-32,37-45,47-59,61,72 and 76 are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____.
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
	6) <input type="checkbox"/> Other: _____.

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1, 3-9, 12, 15-16, 21-22, 24, 29-32, 37-45, and 47-58 drawn to a method of inferring a trait of an individual and estimating proportional ancestry, classified in class 435, subclass 6
- II. Claims 59 and 61, drawn to an article of manufacture, classified in class 238, subclass 77.
- III. Claims 72 and 76, drawn to a kit comprising hybridizing oligonucleotides, classified in class 536, subclass 24.3

The inventions are distinct, each from the other because of the following reasons:

The method of Group I and a kit of Group III are related as product and process of use.

The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, a kit of Group III can be used, for example, for determining protein expression, RNA expression, or synthesis of DNA.

The method of Group I and an article of manufacture of Group II are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another

materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). A photograph of Group II can be used, for example, for exposing in a photo album or a magazine.

Inventions II and III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions a kit of oligonucleotides and a photograph have different function, structure, and mode of operation.

Because these inventions are distinct for the reasons given above, the classification is different, and the nonpatent and patent literature search required for each group is not coextensive with that requirement for another group, restriction for examination purposes as indicated is proper.

Species Election Requirement

This application contains claims directed to the following patentably distinct species of the claimed invention:

Species A: elect a single ancestry information marker from SEQ ID NOs: 1-331 recited in claims 4-5, 37, and 72.

It is recognized that the claims recited a “panel” or plurality of AIMs. For the purpose of facilitating search and examination, however, the election of a SINGLE SEQ ID NO: (AIM) is required. All claims which “read on” or embody a panel comprising the elected sequence will be considered elected.

Species B: elect one trait from among those recited, for example, in claims 3 and 12, 15-16, and 21-22.

Currently, claims 1, 7, 12, 24, 29-32, 38-45, 47-59, and 61 are generic.

Applicant is required under 35 U.S.C. 121 to elect ONE disclosed species from EACH group A and B for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Species of group A, SEQ ID NOS: 1-331 are unrelated, each has a different structure and function, and therefore a panel comprising any particular sequence will necessarily be different from a panel which does not comprise that sequence.

Species of group B, different traits are unrelated, each has different function, and data generated for each trait is expected to be different from data generated for any other trait.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marina Miller whose telephone number is (571)272-6101. The examiner can normally be reached on 8-5, M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ardin Marschel, Ph. D., can be reached on (571)272-0718. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MARJORIE A. MORAN
PRIMARY EXAMINER

Marjorie A. Moran
9/15/05

MM

Marina Miller
Examiner
Art Unit 1631